

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

- 1-22 (Canceled)
23. (New) A composition based on zirconium oxide and cerium oxide, comprising tin oxide in a proportion of at most 25%, optionally, of at most 20% by weight of oxide.
24. (New) The composition as claimed in claim 23, wherein the tin oxide proportion is of at most 10%, by weight of oxide, optionally of at most 5% by weight of oxide.
25. (New) The composition as claimed in claim 23, having a Ce/Zr molar ratio of between 0.10 and 4, optionally between 0.15 and 2.25.
26. (New) The composition as claimed in claim 23, further comprising at least one oxide of a rare earth metal other than cerium.
27. (New) The composition as claimed in claim 26, having a proportion of the oxide of the abovementioned rare earth metal of at most 35%, optionally at most 10%.
28. (New) The composition as claimed in claim 26, wherein the abovementioned rare earth metal is yttrium, lanthanum, neodymium or praseodymium.
29. (New) The composition as claimed in claim 23, exhibiting at least one reducibility peak at a temperature of less than 500°C.
30. (New) The composition as claimed in claim 23, exhibiting an OSC of at least

0.3 ml of O₂/g/s at 400°C.

31. (New) The composition as claimed in claim 30, wherein the OSC is of at least 0.35 ml of O₂/g/s, optionally of at least 1 ml of O₂/g/s, at 400°C.

32. (New) The composition as claimed in claim 23, having a Ce/Zr ratio of at least 0.5 and an OSC of at least 0.1 ml of O₂/g/s at 300°C.

33. (New) The composition as claimed in claim 26, exhibiting an OSC of at least 0.2 ml of O₂/g/s, optionally of at least 0.4 ml of O₂/g/s, at 300°C.

34. (New) The composition as claimed in claim 25, exhibiting either a Ce/Zr ratio of at least 1 and a specific surface, after calcination at 1000°C for 10 hours, of at least 5 m²/g or a Ce/Zr ratio of less than 1 and a specific surface, after calcination at 1000°C for 10 hours, of at least 8 m²/g.

35. (New) The composition as claimed in claim 34, exhibiting either a Ce/Zr ratio of at least 1 and a specific surface, after calcination at 1000°C for 10 hours, of at least 5 m²/g or a Ce/Zr ratio of less than 1 and a specific surface, after calcination at 1000°C for 10 hours, of at least 15 m²/g.

36. (New) A process for the preparation of a composition as defined in claim 23 comprising the following stages:

- (a) forming a mixture comprising compounds of zirconium, of cerium, and of tin;
- (b) bringing said mixture into contact with a basic compound, to obtain a precipitate;
- (c) heating the precipitate obtained in stage (b) in an aqueous medium;
- (d) calcinating the precipitate obtained in stage (c).

37. (New) A process for the preparation of a composition as defined in claim 26

comprising the following stages:

- (a) forming a mixture comprising compounds of zirconium, of cerium, of tin and, of the abovementioned rare earth metal;
- (b) bringing said mixture into contact with a basic compound, to obtain a precipitate;
- (c) heating the precipitate obtained in stage (b) in an aqueous medium;
- (d) calcinating the precipitate obtained in stage (c).

38. (New) The process as claimed in claim 36, further comprising an additional stage (cd), intermediate between the abovementioned stage (c) and the above-mentioned calcination stage (d), wherein a surfactant additive selected from the group consisting of anionic surfactants, nonionic surfactants, polyethylene glycols, and carboxylic acids, salts of carboxylic acids and carboxymethylated ethoxylates of fatty alcohols, is added to the precipitate obtained in stage (c).

39. (New) The process as claimed in claim 36, wherein in stage (a) the compounds of zirconium, cerium, and tin are nitrates, acetates, oxalates, chlorides or ceric ammonium nitrates.

40. (New) The process as claimed in claim 36, wherein, in stage (a), the cerium compound is in the form of Ce(III) and/or of a tin(II) compound and an oxidizing agent is added during stage (a) or during stage (b), optionally at the end of the latter.

41. (New) The process as claimed in claim 36, wherein the heating of the precipitate of stage (c) is carried out at a temperature of at least 100°C.

42. (New) A catalytic system, comprising a composition as defined in claim 23.

43. (New) A process for the treatment of exhaust gases from internal combustion

43. (New) A process for the treatment of exhaust gases from internal combustion engines, comprising the step of bringing into contact said gases with the catalytic system as claimed in claim 42.

44. (New) A process for the purification of air, said air comprising carbon monoxide, ethylene, aldehyde, amine, mercaptan, ozone, volatile organic compounds, atmospheric pollutants, fatty acids, hydrocarbons, aromatic hydrocarbons, nitrogen oxides or malodorous compounds, comprising the step of bringing into contact said gases with the catalytic system as claimed in claim 42.